IN THE CLAIMS:

- 1. (Currently Amended) Coiling device to coil rolled or drawn long products, comprising a mandrel (111), arranged cantilevered and rotatable with respect to a central longitudinal axis (X), on which mandrel (11) wherein said long products are able to be wound on said mandrel in adjacent and superimposed spirals (33), in order to form a compact coil (31) having the geometric shape of a circular ring with lateral flanks substantially orthogonal, or very angled, with respect to said central longitudinal axis (X), wherein said mandrel (11) comprises a flange (12) substantially orthogonal, or very angled, with respect to said central longitudinal axis (X) and able to define a first lateral flank of said coil (31), and wherein said mandrel (11) also comprises first arm elements (13), able to define the cylindrical surface of the core that forms said coil (31), and second arm elements (14), opposite said flange (12), and able to define a second flank of said coil, said first and said second arm elements (13, 44) being mobile between a first coil-forming position and a second coil-removal position, characterized in that and wherein said second arm elements (14) are provided with preventing means (40) able to contact said first arm elements (13), in order to prevent said first arm elements (13) from moving from said first coil-forming position to said second coil-removal position until said second arm elements (14) are in said first coil-forming position.
- 2. (Currently Amended) Coiling device as in claim 1, characterized in that wherein said first arm elements (13) in said first position are substantially parallel to said central longitudinal axis (X), while in said second position they said first arm elements are inclined with respect to said central longitudinal axis (X), so as to define a substantially truncated cone surface converging towards the cantilevered end of said mandrel (11).
- 3. (Currently Amended) Coiling device as in claim 1 er-2, characterized in that wherein said first arm elements comprise a plurality of axial arms (13) arranged at intervals around said central longitudinal axis (X).

- 4. (Currently Amended) Coiling device as in claim 1, 2-or-3, characterized in that wherein said second arm elements (144) in said first position are substantially orthogonal, or very angled, with respect to said central longitudinal axis (X), while in said second position they are substantially parallel to said central longitudinal axis (X) and outside the space occupied by said formed coil (341).
- (Currently Amended) Coiling device as in any claim hereinbefere, characterized-in-that 1, wherein said second arm elements comprise a plurality of containing arms (44) arranged at intervals around said central longitudinal axis (X).
- 6. (Currently Amended) Colling device as in claim 5, characterized-in-that wherein said containing arms (44) are pivoted on said mandrel (41), by means of respective pins (20), so that during their movement from said position to form said coil (31) to said position to remove said coil (31), they do not interfere with the spirals (33) of said formed coil (31).
- 7. (Currently Amended) Coiling device as in any claim hereinbefore, characterized-in that 1, wherein said flange (42) comprises a front wall (135) mobile parallel to said central longitudinal axis (X) in order to be positioned axially in a desired position.
- 8. (Currently Amended) Coiling device as in any claim hereinbefore, characterized-in-that 1, wherein said flange (42) comprises a deposition ring (28) cooperating with said first arm elements (43), in order to define the cylindrical winding surface of the first layer of said spirals (33) of said coil (34).
- (Currently Amended) Coiling device as in any claim hereinbefore, characterized in that 1, wherein said second arm elements (14) comprise a supporting surface (27) able to cooperate with the most external spiral of the first layer of spirals (33) of said coil (34).

- 10. (Currently Amended) Coiling device as in any claim hereinbefore, characterized in that 1, wherein said mandrel (41) also comprises a substantially cylindrical central body (30) on which said first and said second arm elements (13, 14) are pivoted.
- 11. (Currently Amended) Coiling device as in claim 10, eharacterized in that wherein first actuation means (46) are mounted on said central body (30) in order to command the displacement of said first arm elements (13) between one or the other of said first and second positions.
- 12. (Currently Amended) Coiling device as in claim 11, characterized-in-that wherein said first actuation means comprise levers (46) pivoted on said central body (39).
- 13. (Currently Amended) Coiling device as in claim 10, 41—or 12, characterized in that wherein temporary positioning and clamping means (22), arranged on said central body (30), are associated with said first arm elements (13).
- 14. (Currently Amended) Coiling device as in any claim from 10 to—13 inclusive, characterized—in-that wherein control means (36), arranged on said central body (30), are associated with said first arm elements (13) in order to control their first position.
- 15. (Currently Amended) Coiling device as in any claim from 10 to 14 inclusive, characterized in that wherein second actuation means (18, 19, 26, 118, 119) are mounted on said central body (39) in order to command the displacement of said second arm elements (14) between one or the other of said first and second positions.
- 16. (Currently Amended) Coiling device as in claims 5 and 15, characterized

in that claim 5, wherein said second actuation means comprise toothed elements (26) associated with said containing arms (14) and cooperating with rack means (18) or endless screw means (118).

- 17. (Currently Amended) Coiling device as in claims 12 and 16, characterized in that claim 12, wherein said levers (16) and said rack means (18) or said endless screw means (118) are driven by rod means (17).
- 18. (Currently Amended) Coiling device as in claim 17, characterized in that wherein said rod means comprise a rod (47) arranged coaxial with said central longitudinal axis (X) and mobile axially between two defined positions.
- 19. (Currently Amended) Coilling device as in claim 17, characterized in that wherein said rod means comprise a rod (17) arranged coaxial with said central longitudinal axis (X) and able to rotate, in one direction or another, by an angle of defined amplitude.
- 20. (Currently Amended) Coiling device as in claim 18 er-19, characterized in-that wherein said rod (47) is hollow inside.
- 21. (Currently Amended) Coiling method to coil rolled or drawn long products, by means of a mandrel (414), arranged cantilevered and rotatable with respect to a central longitudinal axis (X), en-which-mandrel (41) wherein said long products are able to be wound on said mandrel in adjacent and superimposed spirals (33), in order to form a compact coil (34) having the geometric shape of a circular ring with lateral flanks substantially orthogonal, or very inclined, with respect to said central longitudinal axis (X), wherein said mandrel (41) comprises a flange (42) substantially orthogonal, or very inclined, with respect to said central longitudinal axis (X) and able to define a first lateral flank of said coil (34), characterized in that wherein in a first step to form said coil (34), said mandrel (41) has first arm elements (13) substantially parallel to said central longitudinal axis (X) which define the cylindrical surface of the core

that forms said coil (31), and second arm elements (14), opposite said flange (12), which define a second lateral flank of said coil (31), and in that wherein at the end of said first step to form said coil (31), said first and said second arm elements (13, 14) are displaced to a position of non-interference with said coil (31), in order to allow said coil (31) to be removed axially from the cantilevered end of said mandrel (11), and wherein said flange comprises a deposition ring cooperating with said first arm elements in order to define the cylindrical winding surface of the first layer of spirals of said coil.

- 22. (Currently Amended) Coiling method as in claim 21, characterized—in that wherein in said position of non-interference said first arm elements (13) are inclined with respect to said central longitudinal axis (X), so as to define a substantially truncated cone surface converging towards said cantilevered end of said mandrel (14).
- 23. (Currently Amended) Coiling method as in claim 21 or 22, characterized in that wherein in said position of non-interference said second arm elements (44) are substantially parallel to said central longitudinal axis (X) and outside the space occupied by the formed coil (31).
- 24. (Currently Amended) Coiling method as in any claim frem 21 to—23 inclusive, characterized—in that wherein the displacement of said first and second arm elements (13, 14) to said position of non-interference with said coil (31) is achieved by rod means (17) arranged coaxial with said mandrel (11).
- 25. (Currently Amended) Coiling method as in any claim from 21 to 24 inclusive, characterized in that wherein said second arm elements comprise a plurality of containing arms (14) arranged at intervals around said central longitudinal axis (X) and pivoted on a central body (30) of said mandrel (11), and in that wherein said containing arms (14) are pivoted on said mandrel (11) by means of respective pins (20), in such a manner that during their the movement of said containing arms from the position assumed in said first step

to form the coil (31) to said position of non-interference, they said containing arms do not interfere with said spirals (33) of said formed coil (31).

26. (Cancelled)

- 27. (Currently Amended) Coiling method as in any claim from 21 to 26-inclusive, characterized—in—that wherein said second arm elements (14) comprise a supporting surface (27) able to cooperate with the most external spiral of the first layer of spirals (33) of said coil (34).
- 28 (Currently Amended) Coiling method as in claim 24, eharacterized—in that wherein the displacement of said first arm elements (13) between one or the other of the positions to form the coil (31) and of non-interference is achieved by first actuation means (16) connected to said rod means (17).
- 29 (Currently Amended) Coiling method as in any claim from 21 to 28-inclusive, characterized in that wherein temporary positioning and clamping means (22), arranged on a central body (30) of said mandrel (11), are associated with said first arm elements (13).
- 30 (Currently Amended) Coiling method as in any claim from 21 to 29-inclusive, characterized in that wherein control means (36) associated with said first arm elements (13) control the coil-forming position of said first arm elements (13).